

| Program Element      | Existing   | Users   | Types and Quantities                 | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function)              | Patterns<br>(Physical Relationships)<br>Proximity  | Special Notes   |
|----------------------|--|---|--------------------------------------|--|--|---|
| Cross Country Skiing | • Trail System                                       | • Campground Guests<br>• General Public<br>• Campground Employees | • Groomed Trails                     |  |  |   |
| Hiking               | • Trail System                                       | • Campground Guests<br>• General Public<br>• Campground Employees |                                      |  |  | <ul style="list-style-type: none"> <li>• Reduce the amount of trails meandering through the dunes</li> <li>• Define trail access</li> <li>• Consider the central drive focal point as the main access point to the beach</li> </ul>   |
| Metal Detecting      | • Beachfront   | • Campground Guests<br>• General Public                           |                                      |  |  |   |
| Biking               | • North Central State Trail<br>• North Country Trail | • Campground Guests<br>• General Public<br>• Campground Employees | • Mountain Biking<br>• Street Biking |  |  | • Consider adding mountain biking trails  |
| Swimming             | • Lake Michigan (Big Stone Bay)                      | • Campground Guests<br>• General Public                           |                                      | • Currently the swimming is nicer at The Lakeshore Campground than it is at the Day-Use area | • Campers at The Pines Campground usually drive to the beach at The Lakeshore Campground and therefore need parking spaces | <ul style="list-style-type: none"> <li>• How can we get the users at The Pines Campground to the beach?</li> <li>• It is difficult to regulate Day-Use campers from coming to The Lakeshore Campground beach and as a result using parking spaces</li> <li>• Consider using car stickers to regulate parking</li> </ul> |





| Program Element    | Existing  | Users   | Types and Quantities  | Performance Standards                               | Patterns                           | Special Notes   |
|--------------------|---|---|---|---|------------------------------------|---|
|                    |   |   |   | (Quality of Elements Via Materials and/or Function) | (Physical Relationships) Proximity |   |
| Fishing            | <ul style="list-style-type: none"> <li>Lake Michigan (Big Stone Bay)</li> </ul>                               | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> <li>Campground Employees</li> </ul> |   |   |                                    | <ul style="list-style-type: none"> <li>Late May to June is the most popular fishing season</li> </ul> |
| Hunting            | <ul style="list-style-type: none"> <li>Extensive Wilderness</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> </ul>                               |   |   |                                    |   |
| Explorer Program   | <ul style="list-style-type: none"> <li>Trail System</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> </ul>                               |   |   |                                    |   |
| Snowmobiling       | <ul style="list-style-type: none"> <li>Trail System</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> <li>Campground Employees</li> </ul> |   |   |                                    |   |
| Watchable Wildlife | <ul style="list-style-type: none"> <li>Trail System</li> <li>Extensive Wilderness</li> </ul>                  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> <li>Campground Employees</li> </ul> |   |   |                                    |   |
| Organized Events   | <ul style="list-style-type: none"> <li>Trail System</li> <li>Tournaments</li> <li>Community Events</li> </ul> | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>General Public</li> </ul>                               | <ul style="list-style-type: none"> <li>Foot Races</li> <li>Bike Races</li> <li>Swim Races</li> <li>Triatholons</li> <li>Horseshoe Tournament</li> <li>Bean Bag Tournament</li> <li>Movie Nights</li> <li>Parades</li> </ul> |   |                                    |   |



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LAKESHORE CAMPGROUND  
STUDY  
WILDERNESS STATE PARK  
(PHASE 200 PROGRAM DEVELOPMENT)



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April 2013



| Program Element          | Existing | Users | Types and Quantities | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity | Special Notes   |
|--------------------------|----------|-------|----------------------|---|---|---|
| Geocaching               |          |       |                      |   |   | <ul style="list-style-type: none"> <li>Consider adding</li> </ul>   |
| Stand-Up Paddle Boarding |          |       |                      |   |   | <ul style="list-style-type: none"> <li>Consider adding</li> </ul>   |
| Kite Boarding            |          |       |                      |   |   | <ul style="list-style-type: none"> <li>Consider adding</li> </ul>   |
| Others                   |          |       |                      |   |   | <ul style="list-style-type: none"> <li>Other Activities: Canoeing, kayaking, wind surfing</li> <li>Consider connecting to the existing water trails</li> <li>Is there opportunity for a public/private partnership in which a private entity would supply all water equipment rentals?</li> <li>Consider adding activities for an aging population</li> </ul> |



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|--------------------|---|--|--|--|--|---|
| Playground         | <ul style="list-style-type: none"> <li>Two Playgrounds (1 at each lakeshore)</li> </ul>   | <ul style="list-style-type: none"> <li>Camground guests</li> </ul> | <ul style="list-style-type: none"> <li>Two slides</li> <li>Two swing sets</li> </ul> | <ul style="list-style-type: none"> <li>Out of date and not "Wilderness"</li> </ul> | <ul style="list-style-type: none"> <li>Users do not want play areas near the water</li> </ul>        | <ul style="list-style-type: none"> <li>Universal vs. Inclusive Access</li> <li>Do we create play areas at The Lakeshore Campground, The Pines Campground and at the Day-Use area?</li> <li>Consider different play locations for the different ages of users</li> <li>Play areas should be nature based</li> <li>Consider creating an environmental play experience</li> <li>Include basic play equipment: slides, swings etc.</li> </ul> |
| Beach Showers      |   | <ul style="list-style-type: none"> <li>Camground guests</li> </ul> |  |  | <ul style="list-style-type: none"> <li>Consider placing off of comfort station structures</li> </ul> | <ul style="list-style-type: none"> <li>Include a footwash station</li> <li>Shower may not be necessary</li> <li>How can we avoid it becoming another area for dishwashing and dog washing</li> <li>Consider adding seating around the showers for users to dry off on and put shoes back on</li> </ul>  |
| Drinking Fountains | <ul style="list-style-type: none"> <li>4 drinking fountains, two for the West Lakeshore and two for the East lakeshore</li> </ul> | <ul style="list-style-type: none"> <li>Camground guests</li> </ul> |  |  | <ul style="list-style-type: none"> <li>Place off of comfort station</li> </ul>                       | <ul style="list-style-type: none"> <li>Use jug fillers instead of drinking fountains</li> </ul>   |
| Kiosks             |   | <ul style="list-style-type: none"> <li>Camground guests</li> </ul> |  |  | <ul style="list-style-type: none"> <li>Place in core gathering areas</li> </ul>                      | <ul style="list-style-type: none"> <li>Utilize Historic Structure</li> </ul>  |



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| Program Element                              | Existing               | Users   | Types and Quantities         | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity   | Special Notes   |
|--|------------------------|---|------------------------------|---|---|---|
| Bike Racks                                   | • 1 at Contact Station | • Campground Bikers<br>• Regional Trail Users | • 1 Metal Portable Bike Rack |   | • Consider Multiple Locations                       |   |
| Picnic Areas (Picnic Tables)<br>(Beachfront) |                        | • All   |                              |   | • Place on beachfront<br>• Large Group Picnic Table | • Consider adding shade<br>elements so users can<br>escape the sun<br>• Good location for parents<br>to sit while still being able<br>to watch their children |
| Kayak / Canoe Racks<br>(Beachfront)          |                        | • All   |                              |   | • Consider placing at trail<br>entries to the beach |   |
| Fire Pits                                    |                        | • All   |                              |   | • Place in the central core                         |   |
| Benches                                      |                        | • All   |                              |   | • Place in the core and on<br>the beach             |   |
| Fixed Board Games                            |                        | • All   |                              |   | • Place in the central core                         |   |
| Dog Park                                     |                        | • Pet Owners                                  |                              |   | • Consider placing the dog<br>area off of the beach | • Consider creating specific<br>locations for dogs to be<br>located<br>• Consider using a dog run<br>instead of dog friendly<br>campsites                     |



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|-----------------------|----------|-------|----------------------|--|--|---|
| Pavilion              |          |       |                      | <ul style="list-style-type: none"> <li>Do not create a pavilion that will attract unwanted animals to nest in</li> </ul> | <ul style="list-style-type: none"> <li>Consider placing at the Day-Use area (this could increase Day-Use programming)</li> </ul>                         | <ul style="list-style-type: none"> <li>Campers will not want a pavilion if it will take campsites away</li> <li>Consider smaller shade structures at The Lakeshore Campground beach</li> <li>Could the pavilion have electricity and sound</li> <li>Consider incorporating a boardwalk near the beach for stargazing</li> </ul> |
| Fish Cleaning Station |          |       |                      |  | <ul style="list-style-type: none"> <li>Consider placing near the office or shop area or between the maintenance building and the headquarters</li> </ul> | <ul style="list-style-type: none"> <li>Consider this as a future phase item (where can we place the fish guts in the mean time?)</li> <li>Consider this as a future phase item (where can we</li> <li>It is highly undesirable to create new infrastructure for a fish cleaning station</li> </ul>                              |



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|--------------------------------|--|---|---|--|--|---|
|                                |  |   |   | (Quality of Elements Via Materials and/or Function)  | (Physical Relationships) Proximity   |   |
| Pavilion                       | <ul style="list-style-type: none"> <li>None</li> </ul>   | <ul style="list-style-type: none"> <li>All</li> </ul>   |   | <ul style="list-style-type: none"> <li>Do not create a pavilion that will attract unwanted animals to nest in</li> </ul> | <ul style="list-style-type: none"> <li>Consider placing at the Day-Use area (this could increase Day-Use programming)</li> </ul> | <ul style="list-style-type: none"> <li>Campers will not want a pavilion if it will take campsites away</li> <li>Consider smaller shade structures at The Lakeshore Campground beach</li> <li>Could the pavilion have electricity and sound</li> <li>Consider incorporating a boardwalk near the beach for stargazing</li> </ul> |
| Book / Game Shed               | <ul style="list-style-type: none"> <li>1 Shed at Lakeshore Campground</li> <li>1 Shed at The Pines Campground</li> </ul>                             | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                               | <ul style="list-style-type: none"> <li>Wooden Shed</li> </ul> |  |  | <ul style="list-style-type: none"> <li>Character?</li> </ul>  |
| Registration / Contact Station | <ul style="list-style-type: none"> <li>1 Structure</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>Campground Employees</li> </ul> |   |  |  |   |
| Pit Toilets                    | <ul style="list-style-type: none"> <li>2 Pit Toilets at Day-Use Area</li> </ul>  |   |   |  |  |   |
| Park Headquarters              | <ul style="list-style-type: none"> <li>1 Structure</li> <li>Unmarked Parking Lot</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>Campground Employees</li> </ul> |   |  |  |   |
| Park Supervisors Residence     | <ul style="list-style-type: none"> <li>1 Structure</li> <li>Unmarked Parking Lot</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Supervisor</li> </ul>                           |   |  |  | <ul style="list-style-type: none"> <li>Consider Relocating</li> </ul>   |
| Park Maintenance and Grounds   | <ul style="list-style-type: none"> <li>2 Structures</li> <li>Marked Parking Lot</li> </ul>   | <ul style="list-style-type: none"> <li>Campground Employees</li> </ul>                            |   |  |  |   |
| Bathhouses                     | <ul style="list-style-type: none"> <li>1 Bathhouse in the West Lakeshore Campground</li> <li>1 Bathhouse in the East Lakeshore Campground</li> </ul> | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                               |   |  |  |   |



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| Program Element    | Existing  | Users   | Types and Quantities   | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function)            | Patterns<br>(Physical Relationships)<br>Proximity   | Special Notes   |
|--------------------|---|---|--|--|---|---|
| Contact Station    | <ul style="list-style-type: none"> <li>• (1)</li> <li>• Sidewalk</li> </ul>   | <ul style="list-style-type: none"> <li>• All</li> </ul>   | <ul style="list-style-type: none"> <li>• Concrete</li> </ul>   |  | <ul style="list-style-type: none"> <li>• Entry(s)</li> </ul>  |   |
| Campground Entry   | <ul style="list-style-type: none"> <li>• Road used as pedestrian walkway</li> </ul>   | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Employees</li> </ul> | <ul style="list-style-type: none"> <li>• Paved Road</li> </ul>   | <ul style="list-style-type: none"> <li>• Reinforced pavement for trash</li> </ul>          |   | <ul style="list-style-type: none"> <li>• How can we integrate walkers and motor vehicles while keeping all users safe?</li> <li>• Add a walkway for campers from The Pines to use when crossing to The Lakeshore Campground</li> </ul>    |
| Campgrounds        | <ul style="list-style-type: none"> <li>• 2 existing pathways leading to bathhouses (1 in each campground)</li> <li>• Roads are used as pedestrian pedestrian walkways</li> </ul>                          | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Employees</li> </ul> | <ul style="list-style-type: none"> <li>• Woodchip Pathways with Wooden Railings</li> </ul>   | <ul style="list-style-type: none"> <li>• ADA</li> <li>• Add designated walkways</li> </ul> | <ul style="list-style-type: none"> <li>• Add cut throughs so campers can avoid passing through other campsites to access the beach</li> </ul> | <ul style="list-style-type: none"> <li>• How can we integrate walkers and motor vehicles while keeping all users safe?</li> </ul>   |
| Beachfront         | <ul style="list-style-type: none"> <li>• West Lakeshore</li> <li>• East lakeshore</li> <li>• Day-Use Beach</li> </ul>   | <ul style="list-style-type: none"> <li>• All</li> </ul>   | <ul style="list-style-type: none"> <li>• The west, and east beaches are sandy, but the Day-Use beach is increasingly rocky as you progress farther east</li> </ul> | <ul style="list-style-type: none"> <li>• Add designated walkways</li> </ul>                | <ul style="list-style-type: none"> <li>• Add designated walkways to the beachfront</li> </ul>   | <ul style="list-style-type: none"> <li>• Consider using a Brock Dock system which is more attractive than mobi mats</li> <li>• Create accessible access points to the water's edge (multiple access points at each campground)</li> </ul> |
| Pines Connectivity | <ul style="list-style-type: none"> <li>• 1 walking path near the west end of The Pines Campground</li> <li>• Pines Campers walk Swamp Line Road to go to the beach at The lakeshore Campground</li> </ul> | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Employees</li> </ul> |  |  |   | <ul style="list-style-type: none"> <li>• Consider closing off the western footpath</li> <li>• Consider realigning road</li> <li>• Consider four-way stop</li> </ul>   |





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|---------------------------|--|---|--|---|---|--|
|                           |  |   |  | (Quality of Elements Via Materials and/or Function)   | (Physical Relationships) Proximity  |  |
| <b>Contact Station</b>    | <ul style="list-style-type: none"> <li>• 6 Parking Spaces</li> <li>• 1 Accessible Parking Space</li> <li>• +/- 340 L.F. Stacking Zone</li> </ul>                                   | <ul style="list-style-type: none"> <li>• Campground Guests Check-In Point</li> <li>• All Vehicles</li> </ul>  | <ul style="list-style-type: none"> <li>• All Rec. Vehicle Types</li> </ul> | <ul style="list-style-type: none"> <li>• Opportunities for Secured Vehicle Parking</li> </ul>   | <ul style="list-style-type: none"> <li>• Central to Campsites</li> </ul>  | <ul style="list-style-type: none"> <li>• Additional Stacking Consideration</li> </ul>  |
| <b>Campground Entry</b>   | <ul style="list-style-type: none"> <li>• 1 Primary Access to Lakeshore Campground</li> <li>• 1 Primary Access to The Pines</li> <li>• 1 Primary Access to Day-Use Areas</li> </ul> | <ul style="list-style-type: none"> <li>• Campground Patrons</li> <li>• Ranger Vehicles</li> <li>• Service Vehicles</li> <li>• Emergency Vehicles</li> </ul> | <ul style="list-style-type: none"> <li>• Paved Roadway</li> </ul>          | <ul style="list-style-type: none"> <li>• Geometric Consideration For Large Vehicles</li> <li>• Consider creating a four way stop</li> </ul> | <ul style="list-style-type: none"> <li>• Multiple Entry Points</li> <li>• Limited Entry Points</li> </ul>                       | <ul style="list-style-type: none"> <li>• How can we integrate walkers and motor vehicles while keeping all users safe? safe?</li> </ul>  |
| <b>Sanitation Station</b> | <ul style="list-style-type: none"> <li>• Two Lanes</li> <li>• Two Entrances and Exits</li> </ul>   | <ul style="list-style-type: none"> <li>• RV's / Campers</li> <li>• Maintenance Vehicles</li> </ul>  | <ul style="list-style-type: none"> <li>• Paved Roadway</li> </ul>          | <ul style="list-style-type: none"> <li>• One Way</li> </ul>   | <ul style="list-style-type: none"> <li>• Close to Pump Station</li> <li>• Consider moving to the east of maintenance</li> </ul> | <ul style="list-style-type: none"> <li>• Needs to be conveniently located so it can be accessed by campers</li> </ul>  |
| <b>Campground Roads</b>   | <ul style="list-style-type: none"> <li>• 2 Existing Loops (East and West Lakeshore)</li> </ul>   |   | <ul style="list-style-type: none"> <li>• 10' Wide</li> </ul>               | <ul style="list-style-type: none"> <li>• Uneven, causes drainage issues</li> <li>• Redesign turn radius to fit all vehicle types</li> </ul> |   | <ul style="list-style-type: none"> <li>• Consider Cut-Throughs</li> <li>• Chip Seal Surface</li> <li>• Use natural elements (boulders, vegetation, etc.) to prevent campers from entering prohibited areas</li> <li>• How can we integrate walkers and motor vehicles while keeping all users safe?</li> </ul> |



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|------------------|---|--|--|--|--|---|
| Parking          | <ul style="list-style-type: none"> <li>94 Total Parking Spaces</li> <li>5 Accessible Spaces</li> <li>75 Spaces at Day-Camping</li> <li>6 Spaces at Contact Station</li> <li>6 Spaces at West Lakeshore</li> <li>7 Spaces at East Lakeshore</li> </ul> | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>Ranger Vehicles</li> <li>Service Vehicles</li> </ul> | <ul style="list-style-type: none"> <li>94 Total Parking Spaces</li> <li>5 Total Accessible Spaces</li> </ul> | <ul style="list-style-type: none"> <li>Small Vehicles</li> <li>Electric Car Charging Station</li> <li>Add more parking spaces at the East and West Lakeshores</li> </ul> | <ul style="list-style-type: none"> <li>Near Structures</li> <li>Centrally located in Campground Areas</li> </ul> | <ul style="list-style-type: none"> <li>Need Boat / Trailer Parking</li> </ul>   |
| Waste Management | <ul style="list-style-type: none"> <li>3 Recycling Bins</li> <li>3 8 Yard Dumpsters</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>Campground Employees</li> </ul>                      |  | <ul style="list-style-type: none"> <li>Reinforced Concrete Pad for Trash</li> </ul>  | <ul style="list-style-type: none"> <li>Centrally located</li> </ul>  | <ul style="list-style-type: none"> <li>Needs Buffer / Screening</li> <li>Needs to be conveniently located so it can be accessed by campers</li> <li>Use one central location for all waste management</li> <li>Consider adding a dumpster for all waste management needs</li> </ul> |



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|----------------------------|----------|---------------------|--|--|---------------------------------------|---------------|
|                            |          |                     |  | (Quality of Elements Via<br>Materials and/or Function) | (Physical Relationships)<br>Proximity |               |
| Floor Plans                | • None   | • Campground Guests | <ul style="list-style-type: none"><li>• "Green" Restroom Example</li><li>• Proud Lake Shower/Restrooms</li><li>• Accessible Facility</li><li>• How Many Facilities</li><li>• Verify # of fixtures/showers</li></ul>    |  |                                       |               |
| Roofing System             |          |                     | <ul style="list-style-type: none"><li>• Arch. Dimensional Shingle</li><li>• Traditional Standing Seam Metal</li><li>• Alternative Metal Roofing</li></ul>  |  |                                       |               |
| Exterior Finishes          |          |                     | <ul style="list-style-type: none"><li>• Contextural with Campground</li><li>• Re-use of existing siding</li><li>• Maintenance Concerns</li></ul>   |  |                                       |               |
| Interior Finishes          |          |                     | <ul style="list-style-type: none"><li>• Durable/low maintenance</li><li>• Alternatives to tile flooring</li><li>• Minimize toilet partitions</li><li>• Cost versus performance</li><li>• Daylight Harvesting</li></ul> |  |                                       |               |
| Staff Maintenance Req'mts. |          | • Maintenance Staff | <ul style="list-style-type: none"><li>• Winterization</li><li>• Controls to shut down 1 shower</li><li>• Operational while cleaning</li><li>• Numerous floor drains</li><li>• Room to work (mech. space)</li></ul>     |  |                                       |               |
| Fixture Req'mts.           |          |                     | <ul style="list-style-type: none"><li>• Durable/low maintenance</li><li>• Coordinate w/ Engineers</li></ul>  |  |                                       |               |
| Dishwashing Station        |          | • Campground Guests | <ul style="list-style-type: none"><li>• Determine need</li><li>• Determine number</li><li>• Integrated into bath/shower facility?</li></ul>  |  |                                       |               |



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LAKESHORE CAMPGROUND  
STUDY  
WILDERNESS STATE PARK  
(PHASE 200 PROGRAM DEVELOPMENT)



| Program Element         | Existing    | Users               | Types and Quantities                     | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity   | Special Notes  |
|-------------------------|-------------|---------------------|--|---|---|--|
| 30' Trailer / Motorhome | • All sites | • Campground Guests | • Pull-Through<br>• Pull-In<br>• Back-In | • Pads or No Pads   | • Consider grouping with all other RV style campers | • These larger vehicles need to be contained to a specific area<br>• Back-in sites are the most desirable option<br>• Pull-through sites are the less desirable option |
| 25' Trailer / Motorhome | • All sites | • Campground Guests | • Pull-Through<br>• Pull-In<br>• Back-In | • Pads or No Pads   | • Consider grouping with all other RV style campers | • These larger vehicles need to be contained to a specific area<br>• Back-in sites are the most desirable option<br>• Pull-through sites are the less desirable option |
| 20' Trailer / Motorhome | • All sites | • Campground Guests | • Pull-In<br>• Back-In                   | • Pads or No Pads   | • Consider grouping with all other RV style campers | • These larger vehicles need to be contained to a specific area<br>• Back-in sites are the most desirable option<br>• Pull-through sites are the less desirable option |
| Van / Bus               | • All sites | • Campground Guests | • Pull-In<br>• Back-In                   |   | • Consider grouping with all vans and busses        |  |
| Tent / Trailer          | • All sites | • Campground Guests |  | • Two sleeping shelters per campsite  | • Consider grouping with tent campers               |  |
| Tent                    | • All sites | • Campground Guests |  | • Two sleeping shelters per campsite  | • Consider grouping with tent / trailer campers     |  |

Old School / New School  
 Public Waterfront Site / Beach Picnic Area  
 Tier Relationships  
 Camper Accoutrements  
 Boat Trailers  
 Eating Tents  
 Awnings  
 Floats  
 Kayaks  
 Etc.



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| Program Element | Existing   | Users   | Types and Quantities  | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity   | Special Notes   |
|-----------------|--|---|---|---|---|---|
| Group Camping   | <ul style="list-style-type: none"> <li>Any group of 5 or more campsites</li> </ul> | <ul style="list-style-type: none"> <li>Large groups of campground guests</li> </ul> |   |   | <ul style="list-style-type: none"> <li>Consider separating group campers from the other campground users</li> </ul>   | <ul style="list-style-type: none"> <li>A large group could consist of up to 50 campers</li> <li>Groups are made up of no less than 5 campsites</li> </ul> |
| Walk-In Sites   | <ul style="list-style-type: none"> <li>All sites</li> </ul>                        | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                 | <ul style="list-style-type: none"> <li>Tents</li> <li>Yurts</li> <li>Decks</li> </ul> |   | <ul style="list-style-type: none"> <li>Consider placing where Day-Use area is currently located</li> <li>Consider placing in a more remote and isolated area</li> </ul> |   |
| Tent            | <ul style="list-style-type: none"> <li>All sites</li> </ul>                        | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                 |   |   |   |   |
| Dog Sites       | <ul style="list-style-type: none"> <li>All sites</li> </ul>                        | <ul style="list-style-type: none"> <li>Campground Guests with Dogs</li> </ul>       |   |   |   | <ul style="list-style-type: none"> <li>Consider dog friendly sites separated from other campers</li> </ul>  |
| Cabins          | <ul style="list-style-type: none"> <li>All sites</li> </ul>                        | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                 |   |   |   | <ul style="list-style-type: none"> <li>Consider using mini-cabins</li> </ul>  |

Old School / New School  
Public Waterfront Site / Beach Picnic Area  
Tier Relationships  
Camper Accoutrements  
Boat Trailers  
Eating Tents  
Awnings  
Floats  
Kayaks  
Etc.



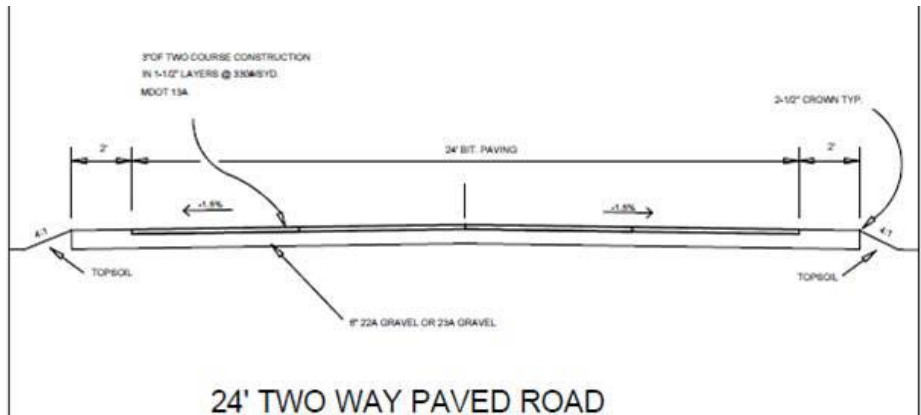
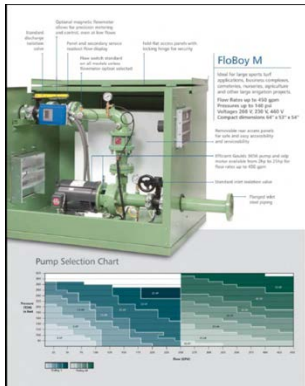
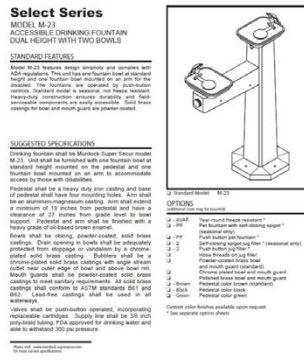
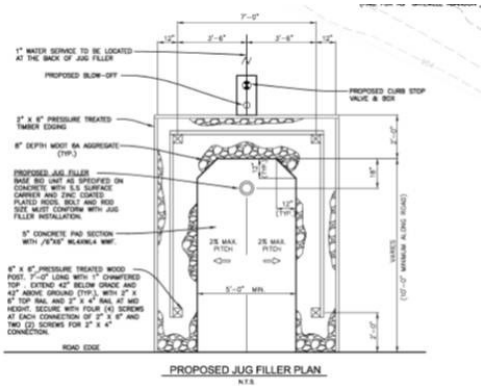
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LAKESHORE CAMPGROUND  
STUDY  
WILDERNESS STATE PARK  
(PHASE 200 PROGRAM DEVELOPMENT)



| Program Element            | Existing   | Users   | Types and Quantities   | Performance Standards  | Patterns  | Special Notes   |
|----------------------------|--|---|--|--|---|---|
| Water Well                 | <ul style="list-style-type: none"><li>• 6" Steel Casing Well within existing well house</li><li>• Galvanized Steel water main</li><li>• 4 jug fillers and service to three (3) water services to buildings</li></ul> | <ul style="list-style-type: none"><li>• Campground Guests</li><li>• Campground Employees</li></ul>    | <ul style="list-style-type: none"><li>• Type II - 190 feet deep - 75 GPM - Six (6) 119 pressure tanks</li><li>• Galvanized water main</li><li>• Jug fillers with fountains</li></ul> | <ul style="list-style-type: none"><li>• Good water quality - at maximum capacity during heavy use - no redundancy in system</li></ul>  | <ul style="list-style-type: none"><li>• Remote from Lakeshore Campground - Good isolation distance for water quality</li><li>• Dead ends in system may compormise water quality</li></ul> | <ul style="list-style-type: none"><li>• Recommend to replace existing pump and tanks with VFD; replace existing water distribution network; and consider implemenation of new VFD water well for redundancy</li></ul> |
| Sanitary Sewer Lift System | <ul style="list-style-type: none"><li>• Sanitary Lift Station &amp; Treatment Plant</li></ul>  | <ul style="list-style-type: none"><li>• Campground Guests</li><li>• Campground Employees</li></ul>    | <ul style="list-style-type: none"><li>• Two (2) wetwell mounted</li><li>• 168,000 treatment capacity</li></ul>   | <ul style="list-style-type: none"><li>• System recently upgraded in 2001 - no capacity or performance issues noted</li></ul>   | <ul style="list-style-type: none"><li>• Centrally located wihin existing Lakeshore Campground. Systems served must be in close proximity</li></ul>  | <ul style="list-style-type: none"><li>• Depth of existing sump pit restricts distance the lift station can serve existing buildings</li></ul>   |
| Sanitation Station         | <ul style="list-style-type: none"><li>• One(1) sanitation station w/ one dump port, one (1) potable drinking water fill, and one (1) non-potable drinking fill</li></ul>   | <ul style="list-style-type: none"><li>• Campground Guests</li></ul>                                   |  | <ul style="list-style-type: none"><li>• System inadequate to service more than users at a time. Stacking distances a problem. Proximity to existing campsites a problem.</li></ul> | <ul style="list-style-type: none"><li>• Close proximity to units 142 &amp; 143</li></ul>  | <ul style="list-style-type: none"><li>• Relocated facility is recommended to accommodate greater stacking distances and improved facilities for users</li></ul>   |
| Site Drainage              | <ul style="list-style-type: none"><li>• One (1) catch basin with drainage field. Culverts &amp; drainage swales</li></ul>  | <ul style="list-style-type: none"><li>• Campground</li></ul>  | <ul style="list-style-type: none"><li>• See topographic survey</li></ul>   | <ul style="list-style-type: none"><li>• Site is poorly drained with significant ponding during &amp; after rain events</li></ul>   |   | <ul style="list-style-type: none"><li>• Leaching basins interconnected with a subgrade drainage sysem is recommended</li></ul>  |
| ADA Compliance             | <ul style="list-style-type: none"><li>• Verify in field. One(1) ADA picnic table observed</li></ul>  | <ul style="list-style-type: none"><li>• Campground Guests with accessibility related issues</li></ul> | <ul style="list-style-type: none"><li>• 2% of campsites</li></ul>  | <ul style="list-style-type: none"><li>• Level site required</li></ul>  | <ul style="list-style-type: none"><li>• Close proximity to proposed facilities. Accessible route identified</li></ul>   |   |
| Pavement Systems           | <ul style="list-style-type: none"><li>• Existing 10 foot wide HMA paved road; sidewalks to existing buildings; paved parking</li></ul>   | <ul style="list-style-type: none"><li>• Campground Guests</li><li>• Campground Employees</li></ul>    | <ul style="list-style-type: none"><li>• See topographic survey</li></ul>   | <ul style="list-style-type: none"><li>• Poor site drainage is causing a deteriorated pavement condition; thickness of HMA is substandard; aggregate base needed</li></ul>          |   |   |



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LAKESHORE CAMPGROUND  
STUDY  
WILDERNESS STATE PARK  
(PHASE 200 PROGRAM DEVELOPMENT)



design studio  
**LAND**  
landscape architecture / land planning

April 2013



| Program Element     | Existing  | Users   | Types and Quantities   | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity   | Special Notes  |
|---------------------|---|---|--|---|---|--|
| Beach Signs         | <ul style="list-style-type: none"> <li>Beach Kiosk</li> <li>Closed Signs</li> <li>Flag Signal System</li> </ul>   | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>1 Large Kiosk</li> <li>Metal Post Signs</li> <li>Wooden Post Signs</li> </ul>     |   | <ul style="list-style-type: none"> <li>Place on new designated beach trails / boardwalks</li> </ul> | <ul style="list-style-type: none"> <li>Consider redesigning with unifying elements</li> <li>Use DNR standards</li> </ul> |
| Directional Signs   | <ul style="list-style-type: none"> <li>To Amphitheater</li> <li>To Drinking Water</li> <li>To Campsites</li> <li>Wayfinding Signs</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> <li>Emergency Vehicles</li> </ul> | <ul style="list-style-type: none"> <li>Individual Large Wooden Signs</li> <li>DNR Style Wayfinding Signs</li> </ul>      |   |   |  |
| Educational Signs   | <ul style="list-style-type: none"> <li>Coastal Vegetation</li> <li>Lake Michigan</li> <li>Piping Plover</li> <li>Michigan's Natural Heritage</li> <li>Michigan's Magnificent Shoreline</li> </ul>               | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Individual Large Wooden Signs</li> </ul>  |   |   |  |
| Area Signs          | <ul style="list-style-type: none"> <li>Campsite Number Signs</li> <li>Headquarters Sign</li> <li>Recycling Sign</li> <li>Garden Sign</li> </ul>   | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Metal Signs</li> <li>Wooden Signs</li> </ul>                                      |   |   |  |
| Rule Signs          | <ul style="list-style-type: none"> <li>No Parking</li> <li>Drinking Fountain</li> <li>No Bikes</li> <li>No Washing Clothes / Dishes</li> <li>No Glass or Animals</li> <li>Recreation Passport / Dogs</li> </ul> | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Metal Signs</li> <li>Wooden Signs</li> <li>Paper Signs</li> </ul>                 |   |   |  |
| Traffic Signs       | <ul style="list-style-type: none"> <li>5 MPH</li> <li>Slow</li> </ul>   | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Sandwich Board</li> <li>Metal Sign</li> </ul>                                     |   |   |  |
| Trail Signs         | <ul style="list-style-type: none"> <li>10K Finish</li> <li>Trail Map</li> <li>Walkway</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Wooden Signs</li> </ul>   |   |   |  |
| Instructional Signs | <ul style="list-style-type: none"> <li>Emergency telephone numbers</li> <li>Registration Sign</li> <li>Fish Guts Only</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Metal Signs</li> <li>Wooden Signs</li> <li>Paper Signs</li> </ul>                 |   |   |  |
| Miscellaneous Signs | <ul style="list-style-type: none"> <li>Events Sign</li> <li>Weather</li> <li>Green Initiative</li> <li>Trail Numbers</li> <li>Off duty Sign</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Guests</li> </ul>                             | <ul style="list-style-type: none"> <li>Kiosks</li> <li>Metal Signs</li> <li>Wooden Signs</li> <li>Paper Signs</li> </ul> |   |   |  |



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LAKESHORE CAMPGROUND  
STUDY  
WILDERNESS STATE PARK  
(PHASE 200 PROGRAM DEVELOPMENT)



April 2013



| Program Element | Existing   | Users  | Types and Quantities | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function) | Patterns<br>(Physical Relationships)<br>Proximity | Special Notes  |
|-----------------|--|--|----------------------|---|---|--|
| Social Media    | <ul style="list-style-type: none"> <li>Facebook Page</li> </ul>  | <ul style="list-style-type: none"> <li>Campground Users</li> <li>Social Media Users</li> </ul> |                      |   |   | <ul style="list-style-type: none"> <li>Consider joing other social networks</li> </ul>                         |
| Mobile Apps     | <ul style="list-style-type: none"> <li>Credit Cards</li> <li>Liscense Plate Scanner</li> <li>Trail Maps</li> <li>Plant ID</li> <li>GPS/Geocaching</li> </ul> | <ul style="list-style-type: none"> <li>Campground Users</li> </ul>                             |                      |   |   | <ul style="list-style-type: none"> <li>Consider utilizing apps to further guests camping experience</li> </ul> |




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LAKESHORE CAMPGROUND

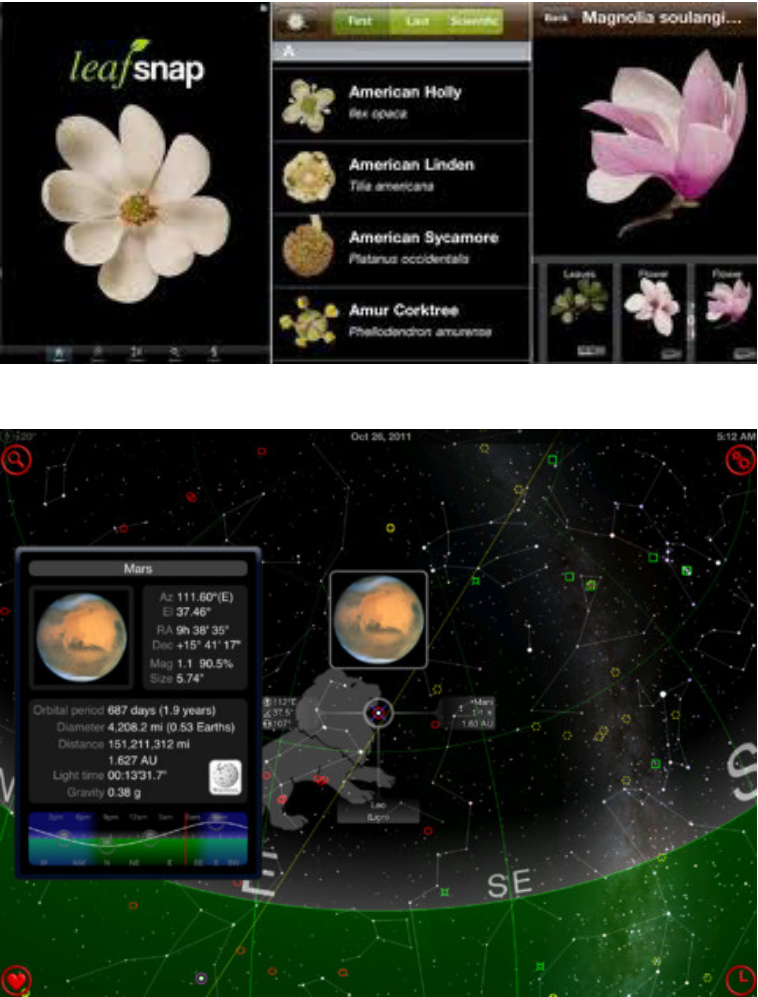
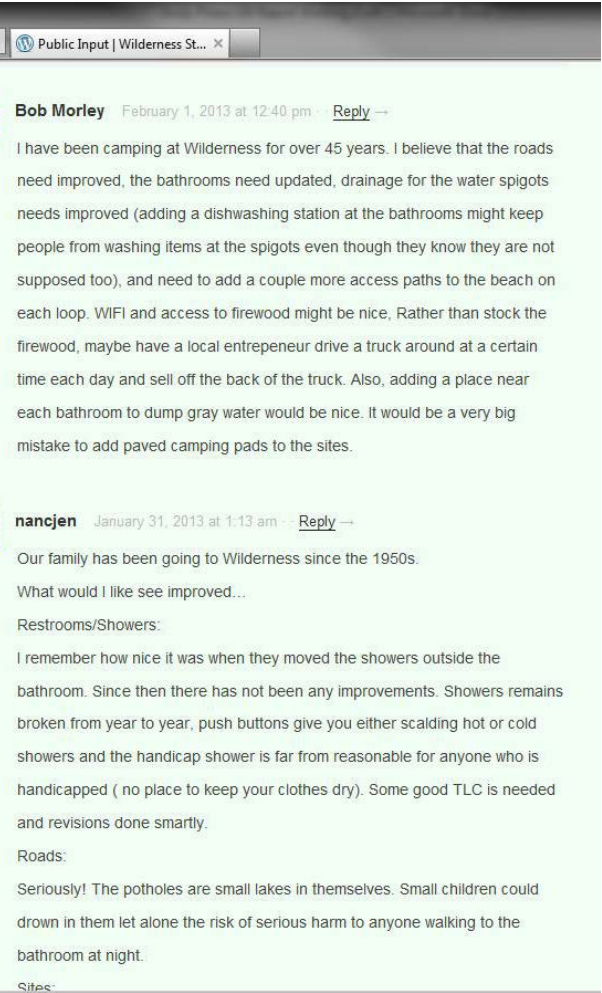
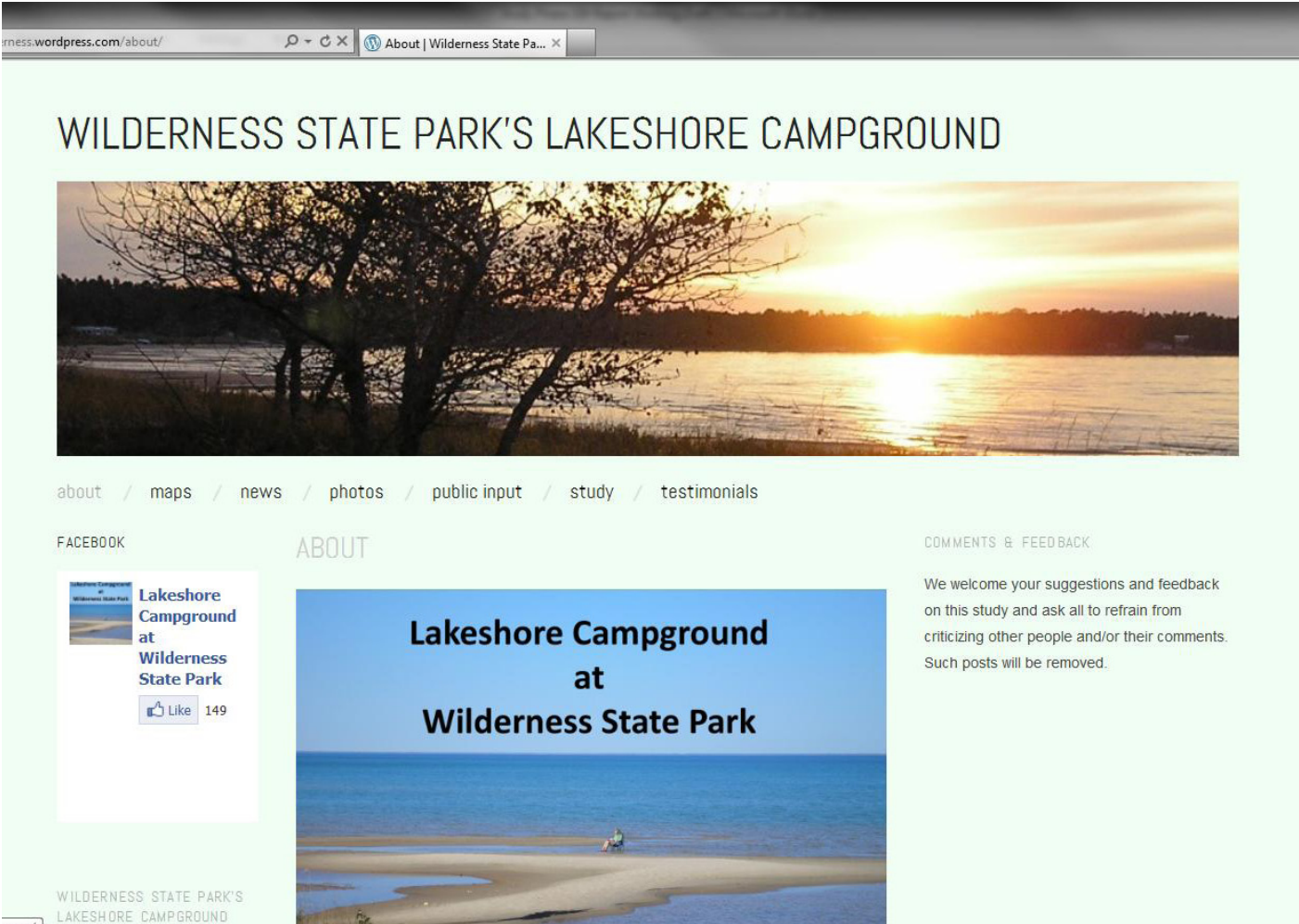
STUDY

WILDERNESS STATE PARK


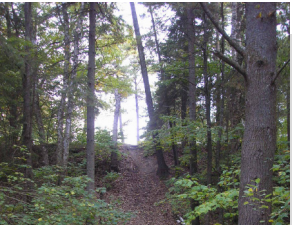

(PHASE 200 PROGRAM DEVELOPMENT)



April 2013





| Program Element               | Existing  | Users  | Types and Quantities   | Performance Standards   | Patterns  | Special Notes   |
|-------------------------------|---|--|--|---|---|---|
|                               |   |  |  | (Quality of Elements Via Materials and/or Function)   | (Physical Relationships) Proximity  |   |
| Vegetation                    | <ul style="list-style-type: none"> <li>• Boreal Forest</li> <li>• Dry-mesic Northern Forest</li> <li>• Predominantly White Spruce, Eastern White Pine and Northern White Cedar</li> <li>• Endangered Plant Species</li> </ul> | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Wildlife</li> </ul> | <ul style="list-style-type: none"> <li>• White Spruce</li> <li>• Eastern White Pine</li> <li>• Northern White Cedar</li> <li>• Red Pine</li> <li>• Balsam Poplar</li> <li>• Balsam Fir</li> <li>• White Ash</li> <li>• White Birch</li> <li>• Silver Maple</li> <li>• Sugar maple</li> <li>• Cherry spp.</li> <li>• Red Maple</li> <li>• Tag Alder</li> <li>• Pitcher's Thistle</li> <li>• Houghton's Goldenrod</li> <li>• Lake Huron Tansy</li> <li>• Pumpell's Bromegrass</li> <li>• Butterwort</li> </ul> | <ul style="list-style-type: none"> <li>• General health is fair to good</li> </ul>  | <ul style="list-style-type: none"> <li>• Little to no understory vegetation within existing campground areas</li> </ul> | <ul style="list-style-type: none"> <li>• New Plantings</li> </ul> |
| Great Lakes Barrens           |   | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Wildlife</li> </ul> |  |   |   |   |
| Great Lakes Marsh             |   |  |  |   |   |   |
| Open Dunes                    | <ul style="list-style-type: none"> <li>• Rare Plant Species</li> </ul>  | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Wildlife</li> </ul> | <ul style="list-style-type: none"> <li>• Pitcher's Thistle</li> <li>• Lake Huron Tansy</li> </ul>  | <ul style="list-style-type: none"> <li>• Light footprints for new camping areas</li> </ul>  |   | <ul style="list-style-type: none"> <li>• Restoration</li> </ul>   |
| Interdunal Wetland            |   | <ul style="list-style-type: none"> <li>• Campground Wildlife</li> </ul>                              |  |   |   |   |
| Wooded Dune-and-Swale Complex |   | <ul style="list-style-type: none"> <li>• Campground Wildlife</li> </ul>                              |  |   |   |   |
| Shoreline                     | <ul style="list-style-type: none"> <li>• Scattered Cobble</li> <li>• Sandy Beaches</li> <li>• Sandy Peninsulas</li> <li>• Wildlife Habitat</li> </ul>   | <ul style="list-style-type: none"> <li>• Campground Wildlife</li> </ul>                              | <ul style="list-style-type: none"> <li>• Good Piping Plover Habitat</li> </ul>   |    |   |   |



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| Program Element            | ITEM/ISSUE  | Users  | Types and Quantities  | Performance Standards<br>(Quality of Elements Via<br>Materials and/or Function)   | Patterns<br>(Physical Relationships)<br>Proximity                                       | Special Notes   |
|----------------------------|---|--|---|---|---|---|
| Electrical                 | • Electric Service  | • ALL  | <ul style="list-style-type: none"> <li>• 7200 volt utility owned distribution system.</li> <li>• Grade mounted and/or pole mounted step down transformers.</li> </ul>   | <ul style="list-style-type: none"> <li>• Transformers by utility company</li> </ul>   | <ul style="list-style-type: none"> <li>• Locate as close to load as possible</li> </ul> | <ul style="list-style-type: none"> <li>• New pad mounted transformers will be located by utility company as required to provide service to new park electric loads</li> </ul> |
| Power                      | <ul style="list-style-type: none"> <li>• Distribution</li> <li>• Convenience power</li> </ul> | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Maintenance Staff</li> <li>• Facilities</li> <li>• Campground Guests</li> <li>• Maintenance Staff</li> </ul> | <ul style="list-style-type: none"> <li>• Shower Toilet Buildings</li> <li>• RV power distribution</li> <li>• Pump Stations</li> <li>• 120 volt convenience power available at comfort station/rest rooms</li> </ul> | <ul style="list-style-type: none"> <li>• Typically circuit breaker type panels, NEMA 3R outdoors, underground wiring in conduit</li> <li>• NEC conformance, GFCI</li> </ul> |   | <ul style="list-style-type: none"> <li>• Powered from utility transformers</li> </ul>   |
| Recreational Vehical Power |   | • Campground Guests  | • 120 volt, 30 amp and/or 50 amp  |   | • Located at RV Campground location   | • Power purchased at pay station  |
| Interior Lighting          | • Building  | • Campground Guests  | • Compact fluorescent, linear fluorescent or LED sources.   |   |   | • Daylight and occupancy sensors will be used to automatically control lights.  |
| Exterior Lighting          | • Selected locations  | • Campground Guests  | <ul style="list-style-type: none"> <li>• Compact fluorescent, linear fluorescent or LED sources.</li> <li>• Solar powered bollards considered at remote (non-powered) locations.</li> </ul>                         |   |   | • Exterior Lighting will conform with the Dark Sky Designation  |
| Telecommunications         | • Telephone Service   | • Administrative Useage  | • Administration Building   |   |   | • Upgrade being investigated  |
| Internet                   | • Satelite (currently)  | • Park Staff only  | • Limited bandwith and availability   |   |   | • Upgrade being investigated  |
| Wi-Fi                      |   | <ul style="list-style-type: none"> <li>• Campground Guests</li> <li>• Campground Employees</li> </ul>  | • Exterior Wifi hotspots at limited locations   |   |   | • Internet Service Providers being investigated.  |



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